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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,032	12/09/2009	Stephen F. Hardy	002441.00208/PP019482.00	7 9250
27476 NOVARTIS V	7590 04/04/201 ACCINES AND DIAC		EXAM	MINER
INTELLECTUAL PROPERTY- X100B			CROUCH, DEBORAH	
P.O. BOX 809 Emeryville, Ca			ART UNIT	PAPER NUMBER
• • •			1632	
			MAIL DATE	DELIVERY MODE
			04/04/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)			
10/587,032	HARDY ET AL.			
Examiner	Art Unit			
DEBORAH CROUCH	1632			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

 Any reply received by the Office later than three months after the malling date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status		
1)🛛	Responsive to communication(s) filed on 24 July 2006.	
2a)	This action is FINAL . 2b) ☐ This action is non-final.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits	
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	

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ion of Claims			
Claim(s) 1-19,22-24 and 27-29 is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
Claim(s) is/are allowed.			
Claim(s) is/are rejected.			
Claim(s) is/are objected to.			
Claim(s) 1-19, 22-24 and 27-29 are subject to restriction and/or election requirement.			
ion Papers			
9) ☐ The specification is objected to by the Examiner.			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			

Priority under 35 U.S.C. § 119

a) LI All	b) Some c) None of.
1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a)).
* See the	e attached detailed Office action for a list of the certified copies not received.

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

N	Notico	

Attachment(s)		
Notice of References Cited (PTO-892)	Interview Summary (PTO-413) Pater Nois/Mail Date.	
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Notice of Informal Patent Application Other:	

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Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-19, 22-24, 27 and 28, drawn to a nucleic acid vector comprising a promoter, a sequence encoding an HML-2 polypeptide, a pharmaceutical composition comprising the vector, a method for raising an immune response comprising administering the vectors, a method for treating a patient comprising administering the pharmaceutical composition and a virus-like particle comprising HML-2 gag polypeptides.

Group II, claim(s) 29, drawn to a method for diagnosing cancer in a patient comprising contacting antibodies.

The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Tonjes teaches a nucleic acid expression vector comprising a HERV-K LTR, a gag sequence and a β -gal gene (Tonjes, page 9193, co. l. , lines 2-10). The vector was produced from HERV-K(C7) which is probably an allelic variant of HERV-K(HML-2.HOM). Thus, at the time of filing, a HERV-K vector highly similar to HERV-K(HML-2.HOM) was known in the art. Therefore this knowledge in the art indicates a lack of a corresponding special technical feature.

REQUIREMENT FOR LINITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of

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the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- A product and a process specially adapted for the manufacture of said product; or
 - (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Crouch, Ph.D. whose telephone number is 571-272-0727. The examiner can normally be reached on M-Fri, 6:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Crouch/ Primary Examiner, Art Unit 1632